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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Lars Hellman
Serial No. : 10/673,594
Filed : September 29, 2003
Title : IMMUNOGENIC POLYPEPTIDES FOR INDUCING ANTI-SELF IGE RESPONSES

Art Unit : 1642
Examiner : Unknown

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL

The following correspondence relating to this application is enclosed for filing:

1. Information Disclosure Statement (1 page);
2. Form PTO-1449 (8 pages);
3. Copies of Cited Documents (16 references);and ✓
4. A Return Postcard.

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Respectfully submitted,

Date: August 2, 2004

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Lisa M. Becker
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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449.

Under 35 USC §120, this application relies on the earlier filing date of application serial numbers 09/401,636, 09/605,924, 09/605,180, 09/605,129, 09/723,945, and 10/176,664 filed September 22, 1999, June 28, 2000, June 28, 2000, June 28, 2000, November 28, 2000, and June 19, 2002, respectively. All of the references were submitted to and/or cited by the Office in the prior applications and, therefore, are not provided in this application with the exception of document nos. AL, AN, AO, AT, AZ, ADD, AGG, ALL, AMM, ABBB, ADDD, ACCCC, AVVVV, ADDDDD, AHHHHH, ALLLLL, ARRRRR, ACCCCCC, AOOOOOO, AEEEEEEE, AMMMMMMM, and ANNNNNNN. Also, since this application was filed after July 1, 2003, only copies of non-U.S. patent citations are being provided.

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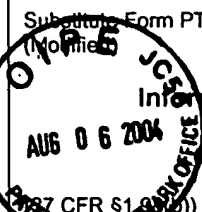
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Substitute Form PTO-1449 (Non-Filing) 	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10223-006007	Application No. 10/673,594
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Lars T. Hellman	
		Filing Date September 29, 2003	Group Art Unit 1642

U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,483,793	11/20/84	Vyas			
	AB	4,683,195	07/28/87	Mullis et al.			
	AC	4,703,004	10/27/87	Hopp et al.			
	AD	4,767,842	08/30/88	Stevens			
	AE	4,782,137	11/01/88	Hopp et al.			
	AF	4,873,191	10/10/89	Wagner et al.			
	AG	5,175,384	12/29/92	Krimpenfort et al.			
	AH	5,175,385	12/29/92	Wagner et al.			
	AI	5,196,197	03/23/93	Talwar et al.			
	AJ	5,254,671	10/19/93	Chang			
	AK	5,334,379	08/02/94	Pillai et al.			
	AL	5,420,247	05/30/95	Gearing et al.			
	AM	5,501,855	03/26/96	Talwar et al.			
	AN	5,532,142	07/02/96	Johnston et al.			
	AO	5,552,537	09/03/96	Saxon et al.			
	AP	5,580,859	12/03/96	Felgner et al.			
	AQ	5,589,466	12/31/96	Felgner et al.			
	AR	5,653,980	08/05/97	Hellman			
	AS	5,698,201	12/16/97	Stevens			
	AT	5,723,125	03/03/98	Chang et al.			
	AU	5,733,553	03/31/98	Talwar et al.			
	AV	5,762,931	06/09/98	Talwar et al.			
	AW	5,827,668	10/27/98	Stanworth et al.			
	AX	5,837,686	11/17/98	Kirby et al.			
	AY	5,874,085	02/23/99	Mond et al.			
	AZ	5,891,432	04/06/99	Hoo			
	AAA	5,945,104	08/31/99	Stanworth et al.			

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	ABB	5,955,076	09/21/99	Stanworth et al.			
	ACC	6,034,066	03/07/00	Johnson et al.			
	ADD	6,165,476	12/26/00	Strom et al.			
	AEE	2002/0141989	10/03/02	Kricek et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AFF	0 327 378	08/09/89	EPO				
	AGG	0 282 042 ✓	03/09/88	EPO				
	AHH	0 396 505	11/07/90	EPO				
	AII	0 403 312	12/19/90	EPO				
	AJJ	0 752 886 B1	01/28/98	EPO				
	AKK	0 841 946 B1	10/02/02	EPO				
	ALL	1 009 382 ✓	06/18/03	EPO				
	AMM	0 821 003 ✓	08/20/03	EPO				
	ANN	WO 89/04834	06/01/89	PCT				
	AOO	WO 89/06138	07/13/89	PCT				
	APP	WO 91/01146	02/07/91	PCT				
	AQQ	WO 91/11456	08/08/91	PCT				
	ARR	WO 94/05698	03/17/94	PCT				
	ASS	WO 94/08601	04/28/94	PCT				
	ATT	WO 95/05849	03/02/95	PCT				
	AUU	WO 95/26365	10/05/95	PCT				
	AVV	WO 96/12740	05/02/96	PCT				
	AWW	WO 97/22699	06/26/97	PCT				
	AXX	WO 98/05684	02/12/98	PCT				
	AYY	WO 98/46642	10/22/98	PCT				

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							Yes	No
	AZZ	WO 99/62550	12/09/99	PCT				
	AAAA	WO 99/67293	12/29/99	PCT				
	ABBB	WO 00/15807	03/23/00 ✓	PCT				
	ACCC	WO 00/20027	04/13/00	PCT				
	ADDD	WO 00/25722	05/11/00 ✓	PCT				
	AEEE	WO 00/32227	06/08/00	PCT				
	AFFF	WO 00/65058	11/02/00	PCT				
	AGGG	WO 02/09751	02/07/02	PCT				
	AHHH	WO 02/20038	03/14/02	PCT				
	AIII	WO02/102320	12/27/02	PCT				

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	AJJJ	Abaza et al., "Effects of Amino Acid Substitutions Outside an Antigenic Site on Protein Binding to Monoclonal Antibodies of Predetermined Specificity Obtained by Peptide Immunization: Demonstration with Region 94-100 (Antigenic Site 3) of Myoglobin," <u>J. Protein Chem.</u> , 1992, 11(5):433-444
	AKKK	Attwood, "Genomics: The Babel of Bioinformatics," <u>Science Magazine</u> , 2000, 290(5491)471-473
	ALLL	Aveskogh et al., "Evidence for an early appearance of modern post-switch isotypes in mammalian evolution; cloning of IgE, IgG and IgA from the marsupial <i>Monodelphis domestica</i> ," <u>Eur. J. Immunol.</u> , 1998, 28:2738-2750
	AMMM	Baniyash et al., "Inhibition of IgE binding to mast cells and basophils by monoclonal antibodies to murine IgE," <u>Eur. J. Immunol.</u> , 1984, 14:799-807
	ANNN	Baniyash et al., "Anti IgE Monoclonal Antibodies Directed At The Fcε Receptor Binding Site," <u>Mol. Immun.</u> , 1988, 25(8):705-711
	AOOO	Barouch et al., "Augmentation and Suppression of Immune Responses to an HIV-1 DNA Vaccine by Plasmid Cytokine/Ig Administration," <u>J. Immunol.</u> , 1998, 161(4):1875-1882
	APPP	Basciano et al., "Monoclonal Antibodies That Inhibit IgE Binding," <u>J. Biol. Chem.</u> , 1986, 261(25):11823-11831
	AQQQ	Basu et al., "Purification and characterization of human recombinant IgE-Fc fragments that bind to the human high affinity IgE receptor," <u>J. Biol. Chem.</u> , 1993, 268(18):13118-13127
	ARRR	Burt et al., "Analysis of the Interaction Between Rat Immunoglobulin E and Rat Mast Cells Using Anti-Peptide Antibodies," <u>Mol. Immunol.</u> , 1987, 24(4):379-389
	ASSS	Burt et al., "Use of Synthetic Peptides in the Production and Characterization of Antibodies Directed Against Predetermined Specificities in Rat Immunoglobulin," <u>Mol. Immunol.</u> , 1986, 23(2):181-191

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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	ATTT	Burt et al., "Inhibition of binding of rat IgE to rat mast cells by synethic IgE peptides," <u>Eur. J. Immunol.</u> , 1987, 17:437-440
	AUUU	Coleman et al., "Inhibition of mast cell sensitization <i>in vitro</i> by a human immunoglobulin ϵ -chain fragment synthesized in <i>Escherichia coli</i> ," <u>Eur. J. Immunol.</u> , 1985, 15:966-969
	AVVV	Cruse et al., <u>Illustrated Dictionary of Immunology</u> , 1995, CRC Press Ind., pp. 83, 168-169
	AWWW	Dalum et al., "Breaking of B Cell Tolerance Toward a Highly Conserved Self Protein," <u>J. Immunol.</u> , 1996, 157(11):4796-4804
	AXXX	Dalum et al., "Induction of Cross-Reactive Antibodies Against a Self Protein by Immunization With a Modified Self Protein Containing a Foreign T Helper Epitope," <u>Mol. Immunol.</u> , 1997, 34(16-17):1113-1120
	AYYY	Devlin (ed.), <u>Textbook of Biochemistry</u> , 2 nd Edition, John Wiley & Sons, pp. 49-57
	AZZZ	Froese, "Structure and Function of the Receptor for IgE," <u>CRC Crit. Rev. Immunol.</u> , 1980, 1:79-132
	AAAAA	Gauchat et al., "Regulation of human IgE synthesis: the role of CD4+ and CD8+ T-cells and the inhibitory effects of interferon-alpha," <u>Eur. Respir. J. Suppl.</u> , 1991, 13:31s-38s
	ABBBB	Gordon, "Transgenic Animals," <u>Int. Rev. Cytol.</u> , 1989, 115:171-229
	ACCCC	Geha, "Use of IgE-derived peptides to treat allergy," <u>Annals of Allergy</u> , Letter to the Editor, 1991, 66(5):359-360
	ADDDD	Geha et al., "Inhibition of the Prausnitz-Küstner reaction by an immunoglobulin ϵ -chain fragment synthesized in <i>E. coli</i> ," <u>Nature</u> , 1985, 315:577-581
	AEEEE	Glovsky et al., "Effect of Monoclonal Antihuman IgE on Recombinant IgE (301-376) Inhibition of Specific IgE Histamine Release," Dialog Information Services, file 155, MEDLINE, Dialog accession no. 05892828, Medline accession no. 89212964, <u>Int. Arch. Allergy Appl. Immunol.</u> , 1989, 88(1-2):203-205
	AFFFF	Gossler et al., "Transgenesis by means of blastocyst-derived embryonic stem cell lines," <u>Proc. Natl. Acad. Sci. USA</u> , 1986, 83:9065-9069
	AGGGG	Gould et al., "Recombinant Human IgE," <u>Int. Archs. Allergy Appl. Immun.</u> , 1987, 82:392-393
	AHHHH	Gould, "Immunoglobulin E Receptors," <u>Clinical and Experimental Allergy</u> , 1991, 21, Suppl. 1
	AIIII	Griot-Wenk et al., "Characterization of two dog IgE-specific antibodies elicited by different recombinant fragments of the epsilon chain in hens," Chemical Abstracts, Volume 129 (Columbus, Ohio), page 1, Abstract No. 107756, <u>Vet. Immunol. Immunopathol.</u> , 1998, 64(1):15-32
	AJJJJ	Haba et al., "Production of syngeneic autoreactive monoclonal antibodies specific for isotypic determinants of IgE," <u>J. Immunol. Methods</u> , 1987, 105:193-199
	AKKKK	Haba et al., "Induction of high titers of anti-IgE by immunization of inbred mice with syngeneic IgE," <u>Proc. Natl. Acad. Sci. USA</u> , 1987, 84:5009-5013
	ALLLL	Haba et al., "Inhibition of IgE synthesis by anti-IgE: Role in long-term inhibition of IgE synthesis by neonatally administered soluble IgE," <u>Proc. Natl. Acad. Sci. USA</u> , 1990, 87:3363-3367
	AMMMM	Hamburger, "Allergy and the Immune System," <u>American Scientist</u> , 1976, 64:157-164
	ANNNN	Hamburger, <u>Annals of Allergy</u> , Letter to the Editor, January 1982, 68(1)

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	AOOOO	Hamburger, "Peptide Inhibition of the Prausnitz-Küstner Reaction," <u>Science</u> , 1975, 189:389-390
	APPPP	Hamburger, "Inhibition of IgE binding to tissue culture cells and leucocytes by pentapeptide," <u>Immunology</u> , 1979, 38(4):781-787
	AQQQQ	Hamburger, <u>IgE and Allergy</u> , pp. 95-112
	ARRRR	Hammer et al., "Production of transgenic rabbits, sheep and pigs by microinjections," <u>Nature</u> , 1985, 315:680-683
	ASSSS	Hellman et al., "Structure and evolution of the heavy chain from rat immunoglobulin E," <u>Nucleic Acids Res.</u> , 1982, 10:6041-6049
	ATTTT	Hellman, "Is Vaccination Against IgE Possible?" <u>New Horizons in Allergy Immunotherapy</u> , 1996, Plenum Press, New York, pp. 337-342
	AUUUU	Hellman, "Profound reduction in allergen sensitivity following treatment with a novel allergy vaccine," <u>Eur. J. Immunol.</u> , 1994, 24:415-420
	AVVVV	Helm et al., "The mast cell binding site on human immunoglobulin E," <u>Nature</u> , 1988, 331:180-183
	AWWWW	Helm et al., "Blocking of passive sensitization of human mast cells and basophil granulocytes with IgE antibodies by a recombinant human ϵ -chain fragment of 76 amino acids," <u>Proc. Natl. Acad. Sci. USA</u> , 1989, 86:9465-9469
	AXXXX	Helm et al., "Identification of the High Affinity Receptor Binding Region in Human Immunoglobulin E," <u>J. Biol. Chem.</u> , 1996, 271:7494-7500
	AYYYY	Helm et al., "Peptide blocking of IgE/receptor interaction: possibilities and pitfalls," <u>Allergy</u> , 1997, 52:1155-1169
	AZZZZ	Hogan et al., <u>Manipulating the Mouse Embryo</u> , Cold Spring Harbor Press, Cold Spring Harbor, NY, 1986 (TOC only)
	AAAAAA	Holgate, "A scientific basis to the treatment of allergic diseases," <u>The Practitioner</u> , 1989, 233:599-602
	ABBBB	Hughes, "Cytokine adjuvants: lessons from the past-guidelines for the future?" <u>Veterinary Immunology and Immunopathology</u> , 1998, 63:131-138
	ACCCCC	Ishizaka, "Regulation of Immunoglobulin E Biosynthesis," <u>Advances in Immunology</u> , 1989, 47:1-43
	ADDDDD	Ishizaka et al., "Biological properties of a recombinant human immunoglobulin ϵ -chain fragment," <u>Proc. Natl. Acad. Sci. USA</u> , 1986, 83:8323-8327
	AEEEE	Johansson, "Anti-IgE Antibodies in Human Serum," <u>J. Allergy Clin. Immunol.</u> , 1986, 77(4):555-557
	AFFFFF	Keegan et al., "Characterization of New Rat AntiMouse IgE Monoclonals and Their Use Along With Chimeric IgE to Further Define the Site that Interacts With Fc ϵ RII and Fc ϵ RI," <u>Mol. Immunol.</u> , 1991, 28(10):1149-1154
	AGGGG	Koike et al., "Prevalence and Role of IgG Anti-IgE Autoantibody in Allergic Disorders," <u>Monogr. Allergy</u> , 1989, 26:165-175
	AHHHH	Kraemer et al., <u>Genetic Manipulation of the Early Mammalian Embryo</u> , Cold Spring Harbor Press, Cold Spring Harbor, NY, 1985 (TOC only)
	AIIII	Krimpenfort et al., "Generation of Transgenic Dairy Cattle Using 'In Vitro' Embryo Production," <u>Bio/Technology</u> , 1991, 9:844-847
	AJJJJ	Kuby, "Antigens," <u>Immunology</u> , 2 nd edition, W.H. Freeman and Company, New York, pp. 85-96

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	AKKKKK	Lederman et al., "A single amino acid substitution in a common African allele of the CD4 molecule ablates binding of the monoclonal antibody, IKT4," <u>Mol. Immunol.</u> , 1991, 28:1171-1181
	ALLLLL	Li et al., "J-Endorphin omission analogs: Dissociation of immunoreactivity from other biological activities," <u>Proc. Natl. Acad. Sci. USA</u> , 1980, 77:3211-3214
	AMMMM	Liou et al., "A Chimeric Mouse-Human Antibody That Retains Specificity for HIV gp 120 and Mediates the Lysis of HIV-Infected Cells," <u>J. Immunol.</u> , 1989, 143:3967-3975
	ANNNNN	Lowenadler et al., "T and B Cell Responses to Chimeric Proteins Containing Heterologous T Helper Epitopes Inserted at Different Positions," <u>Mol. Immunol.</u> , 1992, 29(10):1185-1190
	AOOOOC	Maecker et al., "DNA vaccination with cytokine fusion biases the immune response to ovalbumin," <u>Vaccine</u> , 1997, 15(5):1687-1696
	APPPPP	Maeda et al., "Interferon-Beta Prevents Antigen-Induced Bronchial Inflammation and Airway Hyperreactivity in Mice," <u>Pharmacology</u> , 1997, 55:32-43
	AQQQQC	Margolskee et al., "Epstein-Barr Virus Shuttle Vector for Stable Episomal Replication of cDNA Expression Libraries in Human Cells," <u>Mol. Cell Biol.</u> , 1988, 8:2837-2847
	ARRRRR	Marshall et al., "Induction of an auto-anti-IgE response in rats I. Effects on serum IgE concentrations," <u>Eur. J. Immunol.</u> , 1985, 15:272-277
	ASSSSS	Marshall et al., "Induction of an auto-anti-IgE response in rats II. Effects on mast cell populations," <u>Eur. J. Immunol.</u> , 1987, 17:445-451
	ATTTTT	Marshall et al., "Induction of an auto-anti-IgE response in rats III. Inhibition of a Specific IgE Response," <u>Immunology</u> , 1989, 66(3):428-433
	AUUUUU	Michel et al., "Preventative measures in early childhood allergy," <u>J. Allergy Clin. Immunol.</u> , 1986, 1022-1027
	AVVVVV	Mikayama et al., "Molecular cloning and functional expression of a cDNA encoding glycosylation-inhibiting factor," <u>Proc. Natl. Acad. Sci. USA</u> , 1993, 90:10056-10060
	AWWWWW	Morein, <u>Vet. Microbiol.</u> , 1990, 23(1-4):79-84
	AXXXXX	Nagpal et al., "Induction of Allergen-Specific IgE and IgG Responses by Anti-Idiotypic Antibodies," <u>J. Immunol.</u> , 1989, 142(10):3411-3415
	AYYYYY	Neuberger et al., "A hapten-specific chimaeric IgE antibody with human physiological effector function," <u>Nature</u> , 1985, 314(21):268-270
	AZZZZZ	Ngo et al., "Computational Complexity, Protein Structure Prediction, and the Levinthal Paradox," <u>The Protein Folding Problem and Tertiary Structure Prediction</u> , 1994, Merz et al. (eds.), Birkhauser, Boston, MA, pp. 433, 492-495
	AAAAAA	Nissim et al., "Mapping of the high affinity FcM receptor binding site to the third constant region domain of IgE," <u>EMBO J.</u> , 1991, 10:101-107
	ABBBBB	Nissim et al., "Fine Specificity of the IgE Interaction with the Low and High Affinity Fc Receptor," <u>J. Immunol.</u> , 1993, 150(4):1365-1374
	ACCCCC	Nissim et al., "The Use of Mouse/Human IgE Chimeras to Map the FcεR Binding Site of IgE," <u>A Companion to Methods in Enzymology</u> , 1995, pp. 124-131
	ADDDDD	Noro et al., "Monoclonal Antibody (H107) Inhibiting IgE Binding to Fcε(+) Human Lymphocytes," <u>J. Immunol.</u> , 1986, 137(4):1258-1263
	AEEEEEE	Padlan et al., "A Model of the Fc of Immunoglobulin E," <u>Mol. Immun.</u> , 1986, 23(10):1063-1075
	FFFFFFF	Palmiter et al., "Transgenic Mice," <u>Cell</u> , 1985, 41:343-345
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	AGGGGG	Pluckthun, "Antibody engineering: advances from the use of <i>ESCHERICHIA COLI</i> expression systems," <u>Biotechnology</u> , 1991, 9:545-551
	AHHHHH	Presta et al., "The Binding Site on Human Immunoglobulin E for Its High Affinity Receptor," <u>J. Biol. Chem.</u> , 1994, 269:26368-26373
	AIIIII	Purscel et al., "Genetic Engineering of Livestock," <u>Science</u> , 1986, 244:1281-1288
	AJJJJJ	Rammensee et al., "MHC ligands and peptide motifs: first listing," <u>Immunogenics</u> , 1995, 41:178-228
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10223-006007	Application No. 10/673,594
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Lars T. Hellman	
		Filing Date September 29, 2003	Group Art Unit 1642

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AAAAAA	Stanworth et al., "Synthetic Peptides Comprising Sequences of the Human Immunoglobulin E Heavy Chain Capable of Releasing Histamine," <u>Biochem. J.</u> , 1979, 180:665-668
	BBBBBB	Stites et al., <u>Basic and Clinical Immunology</u> , 1987, Appleton and Lange, pp. 703
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